

Attorney Docket No.: UMD-0024
Inventors: Black and Woodbury
Serial No.: 10/820,380
Filing Date: April 7, 2004
Page 2

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-50 (canceled).

Claim 51 (currently amended): A method of inducing differentiation of an isolated marrow stromal cell into an insulin secreting pancreatic islet cell comprising contacting an isolated rat or human marrow stromal cell with at least one antioxidant, thereby inducing differentiation of said rat or human isolated marrow stromal cell into an endodermal/neuronal precursor cell and contacting said endodermal/neuronal precursor cell with ~~at least one~~ basic fibroblast growth factor thereby inducing differentiation of an isolated marrow stromal cell into an insulin secreting pancreatic islet cell.

Claim 52 (currently amended): A method of producing an isolated insulin secreting pancreatic islet cell comprising isolating a rat or human marrow stromal cell, contacting said isolated rat or human marrow stromal cell with at least one antioxidant, thereby inducing differentiation of said isolated marrow stromal cell into an endodermal/neuronal precursor cell and contacting said endodermal/neuronal precursor cell with a basic fibroblast growth factor thereby producing an insulin secreting pancreatic islet cell.